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DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below at 201 et seq. underneath my name.

I believe I am the original, first and sole inventor if only one name is listed at 201 below, or an original, first and joint inventor if plural names are listed at 201 et seq. below, of the subject matter which is claimed and for which a patent is sought on the invention entitled

IMPROVED CIRCULAR SITE-DIRECTED MUTAGENESIS

and for which a patent application:

- ☐ is attached hereto.
- ☒ was filed in the United States on December 8, 1995 as Application Serial No. 08/567,881 (for declaration not accompanying application) with amendment(s) filed on _____ (if applicable).
- ☐ was filed as PCT international application Serial No. _____ on _____ and was amended under PCT Article 19 on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

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APPLICATION NUMBER	COUNTRY	DATE OF FILING (day, month, year)	PRIORITY CLAIMED
			YES <input type="checkbox"/> NO <input type="checkbox"/>
			YES <input type="checkbox"/> NO <input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

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APPLICATION SERIAL NO.	FILING DATE	STATUS		
		PATENTED	PENDING	ABANDONED

POWER OF ATTORNEY: As a named inventor, I hereby appoint S. Leslie Misrock (Reg. No. 18872), Harry C. Jones, III (Reg. No. 20280), Berj A. Terzian (Reg. No. 20060), Gerald J. Flintoft (Reg. No. 20823), David Weild, III (Reg. No. 21094), Jonathan A. Marshall (Reg. No. 24614), Barry D. Rein (Reg. No. 22411), Stanton T. Lawrence, III (Reg. No. 25736), Isaac Jarkovsky (Reg. No. 22713), Joseph V. Colaiani (Reg. No. 20019), Charles E. McKenney (Reg. No. 22795), Philip T. Shannon (Reg. No. 24278), Francis E. Morris (Reg. No. 24615), Charles E. Miller (Reg. No. 24576), Gidon D. Stern (Reg. No. 27469), John J. Lauter, Jr. (Reg. No. 27814), Brian M. Poissant (Reg. No. 28462), Brian D. Coggio (Reg. No. 27624), Rory J. Radding (Reg. No. 28749), Stephen J. Harbulak (Reg. No. 29166), Donald J. Goodell (Reg. No. 19766), James N. Palik (Reg. No. 25510), Thomas E. Friebe (Reg. No. 29258), Laura A. Coruzzi (Reg. No. 30742), Jennifer Gordon (Reg. No. 30753), Jon R. Stark (Reg. No. 30111), Allan A. Fanucci (Reg. No. 30256), Geraldine F. Baldwin (Reg. No. 31232), Victor N. Balancia (Reg. No. 31231), Albert P. Halluin (Reg. No. 25227), Samuel B. Abrams (Reg. No. 30,605), Steven I. Wallach (Reg. No. 35,402), and Marcia H. Sundeen (Reg. No. 30893), all of Pennie & Edmonds, whose addresses are 1155 Avenue of the Americas, New York, New York 10036, 1667 K Street N.W., Washington, DC 20006 and 2730 Sand Hill Road, Menlo Park, CA 94025, and each of them, my attorneys, to prosecute this application, and to transact all business in the Patent and Trademark Office connected therewith.

SEND CORRESPONDENCE TO: PENNIE & EDMONDS 1155 AVENUE OF THE AMERICAS NEW YORK, N.Y. 10036-2711				DIRECT TELEPHONE CALLS TO: PENNIE & EDMONDS DOCKETING (212) 790-2803	
201	FULL NAME OF INVENTOR	LAST NAME Bauer	FIRST NAME John	MIDDLE NAME C.	
	RESIDENCE & CITIZENSHIP	CITY San Diego	STATE OR FOREIGN COUNTRY California	COUNTRY OF CITIZENSHIP USA	
	POST OFFICE ADDRESS	STREET 4635 Tivoli St.	CITY San Diego	STATE OR COUNTRY California	ZIP CODE 92107
202	FULL NAME OF INVENTOR	LAST NAME Wright	FIRST NAME Dowain	MIDDLE NAME A.	
	RESIDENCE & CITIZENSHIP	CITY Cambridge	STATE OR FOREIGN COUNTRY Massachusetts	COUNTRY OF CITIZENSHIP USA	
	POST OFFICE ADDRESS	STREET 581 Mt. Auburn St. #4	CITY Cambridge	STATE OR COUNTRY Massachusetts	ZIP CODE 02138
203	FULL NAME OF INVENTOR	LAST NAME Braman	FIRST NAME Jeffrey	MIDDLE NAME Carl	
	RESIDENCE & CITIZENSHIP	CITY Carlsbad	STATE OR FOREIGN COUNTRY California	COUNTRY OF CITIZENSHIP USA	
	POST OFFICE ADDRESS	STREET 3067 Camino Limero	CITY Carlsbad	STATE OR COUNTRY USA	ZIP CODE 92209
204	FULL NAME OF INVENTOR	LAST NAME Geha	FIRST NAME Raif	MIDDLE NAME S.	
	RESIDENCE & CITIZENSHIP	CITY Belmont	STATE OR FOREIGN COUNTRY Massachusetts	COUNTRY OF CITIZENSHIP USA	
	POST OFFICE ADDRESS	STREET 248 Rutledge Road	CITY Belmont	STATE OR COUNTRY Massachusetts	ZIP CODE 02178
205	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP	
	POST OFFICE ADDRESS	STREET	CITY	STATE OR COUNTRY	ZIP CODE
206	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP	
	POST OFFICE ADDRESS	STREET	CITY	STATE OR COUNTRY	ZIP CODE

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201 <i>John C. Bauer</i>	SIGNATURE OF INVENTOR 202 <i>Jeffrey Carl Braman</i>
DATE 29 March 86	DATE 11/31/86
SIGNATURE OF INVENTOR 203	SIGNATURE OF INVENTOR 204
DATE	DATE

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below at 201 et seq. underneath my name.

I believe I am the original, first and sole inventor if only one name is listed at 201 below, or an original, first and joint inventor if plural names are listed at 201 et seq. below, of the subject matter which is claimed and for which a patent is sought on the invention entitled

IMPROVED CIRCULAR SITE-DIRECTED MUTAGENESIS

and for which a patent application:

- ☐ is attached hereto.
☒ was filed in the United States on December 8, 1995 as Application Serial No. 08/567,881 (for declaration not accompanying application)
 with amendment(s) filed on _____ (if applicable).
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I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment referred to above.

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	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP	
	POST OFFICE ADDRESS	STREET	CITY	STATE OR COUNTRY	ZIP CODE
2 0 6	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP	
	POST OFFICE ADDRESS	STREET	CITY	STATE OR COUNTRY	ZIP CODE

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SIGNATURE OF INVENTOR 201	SIGNATURE OF INVENTOR 202	SIGNATURE OF INVENTOR 203
DATE	DATE	DATE 3-8-96
SIGNATURE OF INVENTOR 204	SIGNATURE OF INVENTOR 205	SIGNATURE OF INVENTOR 206
DATE 3-8-96	DATE	DATE

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Bauer, *et al.*

Serial No.: 08/567,881

Group Art Unit: not yet assigned

Filed: December 8, 1995

Examiner: not yet assigned

For: IMPROVED CIRCULAR SITE-
DIRECTED MUTAGENESIS

Attorney Docket No.:
8142-107-999

SUPPLEMENTAL COMMUNICATION

Sir:

A Response to Notice to File Missing Parts was filed by Applicants on July 12, 1996. Applicants submit herewith a new Declaration and Power of Attorney executed by Dowain A. Wright at page 2 in the correct box entitled "Signature of Inventor 202." As mentioned in the Response, the previous Declaration and Power of Attorney was executed by Mr. Wright in the incorrect box.

Applicants believe there is no fee associated with this communication. However, if a fee is required, the Commissioner is hereby authorized to charge Deposit Account No. 16-1150. A duplicate copy of this communication is enclosed.

Respectfully submitted,

Dated: August 30, 1996


Albert P. Halluin 25,227
(Reg. No.)

PENNIE & EDMONDS
1155 Avenue of the Americas
New York, New York 10036-2711
(415) 854-3660

Enclosures

EXPRESS MAIL CERTIFICATION

"Express Mail" Label No. TB 668 685 666 US Date of Deposit August 30, 1996
I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.


Gabriel Urquidez

PEMP-61642.1

DECLARATION AND POWER OF ATTORNEY

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	RESIDENCE & CITIZENSHIP	CITY San Diego	STATE OR FOREIGN COUNTRY California	COUNTRY OF CITIZENSHIP USA	
	POST OFFICE ADDRESS	STREET 4635 Tivoli St.	CITY San Diego	STATE OR COUNTRY California	ZIP CODE 92107
2 0 2	FULL NAME OF INVENTOR	LAST NAME Wright	FIRST NAME Dowain	MIDDLE NAME A.	
	RESIDENCE & CITIZENSHIP	CITY Dunwoody	STATE OR FOREIGN COUNTRY Georgia	COUNTRY OF CITIZENSHIP USA	
	POST OFFICE ADDRESS	STREET 7815 Landowne Drive	CITY Dunwoody	STATE OR COUNTRY Georgia	ZIP CODE 30350
2 0 3	FULL NAME OF INVENTOR	LAST NAME Braman	FIRST NAME Jeffrey	MIDDLE NAME Carl	
	RESIDENCE & CITIZENSHIP	CITY Carlsbad	STATE OR FOREIGN COUNTRY California	COUNTRY OF CITIZENSHIP USA	
	POST OFFICE ADDRESS	STREET 3067 Camino Limero	CITY Carlsbad	STATE OR COUNTRY USA	ZIP CODE 92209
2 0 4	FULL NAME OF INVENTOR	LAST NAME Geha	FIRST NAME Raif	MIDDLE NAME S.	
	RESIDENCE & CITIZENSHIP	CITY Belmont	STATE OR FOREIGN COUNTRY Massachusetts	COUNTRY OF CITIZENSHIP USA	
	POST OFFICE ADDRESS	STREET 248 Rutledge Road	CITY Belmont	STATE OR COUNTRY Massachusetts	ZIP CODE 02178
2 0 5	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP	
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SIGNATURE OF INVENTOR 201	SIGNATURE OF INVENTOR 202	SIGNATURE OF INVENTOR 203
DATE	DATE	DATE
SIGNATURE OF INVENTOR 204	SIGNATURE OF INVENTOR 205	SIGNATURE OF INVENTOR 206
DATE	DATE	DATE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of)
John C. Bauer et al.)
Serial No.: 08/844,524) Group Art Unit: 1807
Filed: April 17, 1997) Examiner: A. Atzel
For: IMPROVED CIRCULAR)
SITE-DIRECTED MUTAGENESIS)

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

**REVOCATION OF ORIGINAL POWER OF ATTORNEY
AND GRANT OF NEW POWER OF ATTORNEY
AND RATIFICATION OF PRIOR ACTS**

The undersigned has reviewed all the documents in the chain of title of the above-identified patent application and, to the best of undersigned's knowledge and belief, title is in the co-assignee identified below.

CHILDREN'S MEDICAL CENTER CORPORATION, having a place of business located at 300 Longwood, Boston, Massachusetts 02115, certifies that it is the co-assignee and co-owner of the entire right, title and interest in, to, and under the invention described and claimed in the above-identified application by virtue of an Assignment recorded at Reel 8039, Frame 0497, and hereby revokes all previous power of attorney and appoints:

Douglas B. Henderson, Reg. No. 20,291; Ford F. Farabow, Jr., Reg. No. 20,630; Arthur S. Garrett, Reg. No. 20,338; Donald R. Dunner, Reg. No. 19,073; Brian G. Brunsvold, Reg. No. 22,593; Tipton D. Jennings, IV, Reg. No. 20,645; Jerry D. Voight, Reg. No. 23,020; Laurence R. Heftner, Reg. No. 20,827; Kenneth E. Payne, Reg. No. 23,098; Herbert H. Mintz,

Reg. No. 26,691; C. Larry O'Rourke, Reg. No. 26,014; Albert J. Santorelli, Reg. No. 22,610; Michael C. Elmer, Reg. No. 25,857; Richard H. Smith, Reg. No. 20,609; Stephen L. Peterson, Reg. No. 26,325; John M. Romary, Reg. No. 26,331; Bruce C. Zotter, Reg. No. 27,680; Dennis P. O'Reilly, Reg. No. 27,932; Allen M. Sokal, Reg. No. 26,695; Robert D. Bajefsky, Reg. No. 25,387; Richard L. Stroup, Reg. No. 28,478; David W. Hill, Reg. No. 28,220; Thomas L. Irving, Reg. No. 28,619; Charles E. Lipsey, Reg. No. 28,165; Thomas W. Winland, Reg. No. 27,605; Basil J. Lewris, Reg. No. 28,818; Martin I. Fuchs, Reg. No. 28,508; E. Robert Yoches, Reg. No. 30,120; Barry W. Graham, Reg. No. 29,924; Susan Haberman Griffen, Reg. No. 30,907; Richard B. Racine, Reg. No. 30,415; Thomas H. Jenkins, Reg. No. 30,857; Robert E. Converse, Jr., Reg. No. 27,432; Clair X. Mullen, Jr., Reg. No. 20,348; Christopher P. Foley, Reg. No. 31,354; Roger D. Taylor, Reg. No. 28, 992; John C. Paul, Reg. No. 30,413; David M. Kelly, Reg. No. 30,953; Kenneth J. Meyers, Reg. No. 25,146; Carol P. Einaudi, Reg. No. 32,220; Walter Y. Boyd, Jr., Reg. No. 31,738; Steven M. Anzalone, Reg. No. 32,095; Jean B. Fordis, Reg. No. 32,984; Barbara C. McCurdy, Reg. No. 32,120; James K. Hammond, Reg. No. 31,964; Richard V. Burgujian, Reg. No. 31,744; J. Michael Jakes, Reg. No. 32,824; Dirk D. Thomas, Reg. No. 32,600; Thomas W. Banks, Reg. No. 32,719; Christopher P. Isaac, Reg. No. 32,616; Bryan C. Diner, Reg. No. 32,409; M. Paul Barker, Reg. No. 32,013; Andrew Chanho Sonu, Reg. No. 33,457; David S. Forman, Reg. No. 33,694; Vincent P. Kovalick, Reg. No. 32,867; James W. Edmondson, Reg. No. 33,871; Michael R. McGurk, Reg. No. 32,045; Joann M. Neth, Reg. No. 36,363; Gerson S. Panitch, Reg. No. 33,751; Cheri M. Taylor, Reg. No. 33,216; Charles E. Van Horn, Reg. No. 40,266; and Linda A. Waddler, Reg. No. 33,218, all of **FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.**, whose addresses are 1300 I Street N.W., Washington, D.C. 20005-3315; 700 Hansen Way, Palo Alto, California 94304, and 303 Peachtree Street, N.E. Suite 3200, Atlanta, Georgia 30308, and each of them, my attorneys,

to prosecute this application, and to transact all business in the Patent and Trademark Office connected therewith.

The undersigned also hereby ratifies all previous acts taken during the prosecution of the above-identified patent application.

Please direct all correspondence to:

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.
1300 I Street N.W.,
Washington, D.C. 20005-3315

and direct all telephone calls and facsimile transmissions to M. Paul Barker, Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P., telephone (650) 849-6620, facsimile (650) 849-6666.

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

I hereby declare that all statements made herein of my knowledge are true, and that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 5/13/98

CHILDREN'S MEDICAL CENTER
CORPORATION

By: [Signature]

William New

Title: Vice President, Research Administration

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of)	
)	
John C. Bauer, <i>et al.</i>)	
)	
Serial No.: 08/844,524)	Group Art Unit: 1807
)	
Filed: April 17, 1997)	Examiner: A. Atzel
)	
For: IMPROVED CIRCULAR SITE-)	
DIRECTED MUTAGENESIS)	

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

**REVOCATION OF ORIGINAL POWER OF ATTORNEY
AND GRANT OF NEW POWER OF ATTORNEY
AND 37 C.F.R. § 3.73(b) STATEMENT**

Stratagene, duly organized under the laws of the State of California, and having its principal place of business at 11011 North Torrey Pines Road, La Jolla, California, 92037, is the co-assignee and co-owner of the entire right, title, and interest in and to the above-identified application by virtue of an assignment recorded in the PTO at Reel 8039, Frame 500. Stratagene hereby revokes all previous Powers of Attorney and all previous Associate Powers of Attorney in the above action and hereby grants its power of attorney to **FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.** Reg. No. 22,540, Douglas B. Henderson, Reg. No. 20,291; Ford F. Farabow, Jr., Reg. No. 20,630; Arthur S. Garrett, Reg. No. 20,338; Donald R. Dunner, Reg. No. 19,073; Brian G. Brunsvold, Reg. No. 22,593; Tipton D. Jennings, IV, Reg. No. 20,645; Jerry D. Voight, Reg. No. 23,020; Laurence R. Hefter, Reg. No. 20,827; Kenneth E. Payne, Reg.

No. 23,098; Herbert H. Mintz, Reg. No. 26,691; C. Larry O'Rourke, Reg. No. 26,014; Albert J. Santorelli, Reg. No. 22,610; Michael C. Elmer, Reg. No. 25,857; Richard H. Smith, Reg. No. 20,609; Stephen L. Peterson, Reg. No. 26,325; John M. Romary, Reg. No. 26,331; Bruce C. Zotter, Reg. No. 27,680; Dennis P. O'Reilley, Reg. No. 27,932; Allen M. Sokal, Reg. No. 26,695; Robert D. Bajefsky, Reg. No. 25,387; Richard L. Stroup, Reg. No. 28,478; David W. Hill, Reg. No. 28,220; Thomas L. Irving, Reg. No. 28,619; Charles E. Lipsey, Reg. No. 28,165; Thomas W. Winland, Reg. No. 27,605; Basil J. Lewris, Reg. No. 28,818; Martin I. Fuchs, Reg. No. 28,508; E. Robert Yoches, Reg. No. 30,120; Barry W. Graham, Reg. No. 29,924; Susan Haberman Griffen, Reg. No. 30,907; Richard B. Racine, Reg. No. 30,415; Thomas H. Jenkins, Reg. No. 30,857; Robert E. Converse, Jr., Reg. No. 27,432; Clair X. Mullen, Jr., Reg. No. 20,348; Christopher P. Foley, Reg. No. 31,354; Roger D. Taylor, Reg. No. 28,992; John C. Paul, Reg. No. 30,413; David M. Kelly, Reg. No. 30,953; Kenneth J. Meyers, Reg. No. 25,146; Carol P. Einaudi, Reg. No. 32,220; Walter Y. Boyd, Jr., Reg. No. 31,738; Steven M. Anzalone, Reg. No. 32,095; Jean B. Fordis, Reg. No. 32,984; Barbara C. McCurdy, Reg. No. 32,120; James K. Hammond, Reg. No. 31,964; Richard V. Burgujian, Reg. No. 31,744; J. Michael Jakes, Reg. No. 32,824; Dirk D. Thomas, Reg. No. 32,600; Thomas W. Banks, Reg. No. 32,719; Christopher P. Isaac, Reg. No. 32,616; Bryan C. Diner, Reg. No. 32,409; M. Paul Barker, Reg. No. 32,013; Andrew Chanhon Sonu, Reg. No. 33,457; David S. Forman, Reg. No. 33,694; Vincent P. Kovalick, Reg. No. 32,867; James W. Edmondson, Reg. No. 33,871; Michael R. McGurk, Reg. No. 32,045; Joann M. Neth, Reg. No. 36,363; Gerson S. Panitch, Reg. No. 33,751; Cheri M. Taylor, Reg. No. 33,216; Charles E. Van Horn, Reg. No. 40,266; and Linda A. Wadler, Reg. No. 33,218; ; both jointly and

separately as their attorneys with full power of substitution and revocation to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and to receive the Letters Patent.

Under 37 C.F.R. § 3.73(b), the undersigned declares that she has reviewed all of the documents in the chain of title of the patent application identified above, and to the best of her knowledge and belief, title is in the co-assignee identified above. The undersigned (whose title is supplied below) is empowered to sign this document on behalf of the co-assignee, Stratagene.

Please direct all correspondence to:

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.
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Washington, D.C. 20005-3315

and direct all telephone calls and facsimile transmissions to M. Paul Barker, Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P., telephone (202) 408-4067, facsimile (202) 408-4400.

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I hereby declare that all statements made herein of my own knowledge are true ,
and that all statements made on information and belief are believed to be true; and
further, that these statements are made with the knowledge that willful false statement s,
and the like so made, are punishable by fine or imprisonment, or both, under Section
1001, Title 18 of the United States Code, and that such willful false statements may
jeopardize the validity of the application or any patent issuing thereon.

Respectfully submitted,

STRATAGENE

Date: 3/6/98

Name: Ronni L. Sherman

Title: Vice President and General Counsel

Signature: [Signature]